

16. (New) An apparatus for browsing through digital content obtained from a data communications network, the device comprising:

a storage device capable to store digital content previously obtained from a data communication network;

a browser engine capable to access digital content stored in the storage device;

a processor capable to execute the browser engine to permit access of the digital content stored in the storage device.

17. (New) The apparatus of claim 16 wherein the apparatus is capable to be communicatively coupled to a docking device.

18. (New) The apparatus of claim 16 wherein the digital content stored in the storage device was previously downloaded from the data communications network.

19. (New) The apparatus of claim 18 wherein the data communications network is the Internet.

20. (New) The apparatus of claim 16, further comprising:

a helper engine executable by the processor and capable to permit display of at least one type of digital content.

21. (New) The apparatus of claim 16, further comprising:
a plug-in application capable to function from within
the browser engine and capable to permit display of at least
one type of digital content.

22. (New) The apparatus of claim 16, wherein the apparatus
is capable to be communicatively coupled to a host
processing device and wherein the host processing device is
capable to select digital content viewed in the host
processing device for download to the apparatus.

23. (New) The apparatus of claim 16, wherein the apparatus
is capable to be communicatively coupled to the host
processing device and wherein the host processing device is
capable to perform a first function while the apparatus is
capable to perform a second function.

24. (New) The apparatus of claim 16, wherein the apparatus
is capable to schedule download of digital content from the
data communications network.

25. (New) The apparatus of claim 16 further comprising:

a content pointer database including entries for each type of digital content stored in the storage device.

26. (New) The apparatus of claim 16 wherein the digital content includes at least one group of similar content that are grouped in at least one content bundle.

27. (New) The apparatus of claim 16 wherein the digital content obtained from the data communications network is stored in the storage device by caching of the digital content.

28. (New) The apparatus of claim 16, further comprising:
a least recently used engine executable by the processor and capable to automatically delete a selection of digital content in the storage device.

29. (New) The apparatus of claim 16, further comprising:
a picture viewer engine executable by the processor and capable to process picture data stored in the storage device.

30. (New) A method of browsing through digital content obtained from a data communications network, the method comprising:

storing digital content previously obtained from a data communication network; and

accessing digital content stored in the storage device.

31. (New) The method of claim 30, further comprising:

prior to storing the digital content, downloading the digital content from the data communications network.

32. (New) The method of claim 30 wherein the data communications network is the Internet.

33. (New) The method of claim 31 wherein the downloading the digital content comprises:

using a host processing device to download the digital content from the data communications network.

34. (New) The method of claim 31 wherein the downloading the digital content comprises:

selecting digital content viewed in a host processing device for download.

35. (New) The method of claim 30, further comprising:

viewing the digital content in a first device and performing another function in a host processing device communicatively coupled to the first device.

36. (New) The method of claim 31 wherein the downloading the digital content comprises:

download of digital content from the data communications network at a preset schedule.

37. (New) The method of claim 30 further comprising:

creating a content pointer database including entries for each type of stored digital content.

38. (New) The method of claim 30 wherein the storing the digital content further comprises:

grouping at least one group of similar content in the digital content in at least one content bundle.

39. (New) The method of claim 30 the storing the digital content further comprises:

storing the digital content by caching of the digital content in a storage device.

40. (New) The method of claim 30, further comprising:

automatically deleting a selection of the stored
digital content.

41. (New) The method of claim 30, further comprising:
processing picture data in the stored digital content.

42. (New) An article of manufacture, comprising:
a machine-readable medium having stored thereon
instructions to:

store digital content previously obtained from a data
communication network; and

access digital content stored in the storage device.

43. (New) An apparatus for browsing through digital
content obtained from a data communications network, the
apparatus comprising:

means for storing digital content previously obtained
from a data communication network; and

communicatively coupled to the storing means, means for
accessing digital content stored in the storage device.

44. (New) A method of browsing through digital content
obtained from a data communications network, the method
comprising:

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storing digital content previously obtained from a data communication network, the digital content being copied to a storage area for caching; and

accessing digital content stored in the storage device.

45. (New) An article of manufacture, comprising:

a machine-readable medium having stored thereon instructions to:

store digital content previously obtained from a data communication network, the digital content being copied to a storage area for caching; and

access digital content stored in the storage device.

46. (New) An apparatus for browsing through digital content obtained from a data communications network, the apparatus comprising:

means for storing digital content previously obtained from a data communication network, the digital content being copied to a storage area for caching; and

communicatively coupled to the storing means, means for accessing digital content stored in the storage device.

47. (New) A method of permitting the display of picture content, the method comprising:

receiving a request to display picture content that is stored in a storage device;

passing the request to a server;

reading, by the server, the request and determining, by the server, the types of data files stored in the storage device;

informing, by the server, that the request will be handled by a helper engine; and

displaying, by the helper engine, the picture content in response to the request.

48. (New) An article of manufacture, comprising:

a machine-readable medium having stored thereon instructions to:

receive a request to display picture content that is stored in a storage device;

pass the request to a server;

read, by the server, the request and determine, by the server, the types of data files stored in the storage device;

inform, by the server, that the request will be handled by a helper engine; and

display, by the helper engine, the picture content in response to the request.

49. (New) An apparatus of permitting the display of picture content, the apparatus comprising:

means for receiving a request to display picture content that is stored in a storage device;

communicatively coupled to the receiving means, means for passing the request to a server;

communicatively coupled to the passing means, means for reading the request and for determining the types of data files stored in the storage device;

communicatively coupled to the reading means, means for informing that the request will be handled by a helper engine; and

communicatively coupled to the informing means, means for displaying the picture content in response to the request.

50. (New) An article of manufacture, comprising:

a machine-readable medium having stored thereon instructions to:

receive digital content from a data communication network and store the digital content in a non-volatile storage medium;

execute a content browsing engine to select digital content stored in the non-volatile storage medium; and

display an image of the digital content in a display.

51. (New) An apparatus for viewing digital content received from a data communication network, the apparatus comprising:

means for receiving digital content from a data communication network and for storing the digital content in a non-volatile storage medium;

communicatively coupled to the receiving means, means for executing a content browsing engine to select digital content stored in the non-volatile storage medium; and

communicatively coupled to the executing means, means for displaying an image of the digital content in a display.

52. (New) An article of manufacture, comprising:

a machine-readable medium having stored thereon instructions to:

receive a data cast transmission including content bundles;

filter the received content bundles so that selected content bundles are stored in a portable non-volatile storage; and

view at least some of the stored content bundles in a display.

53. (New) An apparatus for receiving data cast transmission, the apparatus comprising:

means for receiving a data cast transmission including content bundles;

communicatively coupled to the receiving means, means for filtering the received content bundles so that selected content bundles are stored in a portable non-volatile storage; and

communicatively coupled to the filtering means, means for viewing at least some of the stored content bundles in a display.

54. (New) The apparatus of claim 53, further comprising:

communicatively coupled to the viewing means, means for transmitting a feedback information to a broadcaster of the content bundles in response to receiving the selected content bundles.

55. (New) A method of processing digital content, comprising:

receiving digital content in a high-definition television signal;

filtering the digital content; and

storing the filtered digital content.

56. (New) The method of claim 55 wherein the digital content is grouped in at least one content bundle.

57. (New) The method of claim 55 wherein the filtering is based on at least one selected parameter.

58. (New) The method of claim 55, further comprising:
sending feedback information to a broadcaster of the high-definition television signal.

59. (New) The method of claim 58, further comprising:
using the feedback information to set an advertisement in a broadcast of a high-definition television signal.

60. (New) An article of manufacture, comprising:
a machine-readable medium having stored thereon instructions to:
receive digital content in a high-definition television signal;
filter the digital content; and
store the filtered digital content.

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61. (New) An apparatus for processing digital content,
comprising:

means for receiving digital content in a high-
definition television signal;

communicatively coupled to the receiving means, means
for filtering the digital content; and

communicatively coupled to the filtering means, means
for storing the filtered digital content.

62. (New) The apparatus of claim 61, further comprising:

communicatively coupled to the storing means, means for
sending feedback information to a broadcaster of the high-
definition television signal.

63. (New) A method of advertising, comprising:

sending digital content in a high-definition television
signal;

receiving feedback information in response to selection
of the digital content; and

based on the feedback information, setting an
advertisement content that is included in a broadcast of the
high-definition television signal.

64. (New) An apparatus for advertising, comprising:

means for sending digital content in a high-definition television signal;

communicatively coupled to the sending means, means for receiving feedback information in response to selection of the digital content; and

communicatively coupled to the receiving means, means for setting an advertisement content that is included in a broadcast of the high-definition television signal based on the feedback information.

REMARKS

Attached to this Amendment A is a copy of the drawing for Figure 1 with proposed changes shown in RED ink. Also attached to this Amendment A is a LETTER TO THE OFFICIAL DRAFTSPERSON (Request To Make Proposed Drawing Changes) requesting changes to be made in Figure 1. Applicant requests the Examiner's approval for such changes to the drawing for Figure 1. No new matter is being added by virtue of the proposed amendment to the drawings.

The specification is being amended above to correct minor typographical errors and to improve clarity. No new matter is being added by virtue of the proposed amendment to the specification.

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New claims 16 to 64 are being added above. Claims 1 to 64 are now pending in this application.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned **"VERSION WITH MARKINGS TO SHOW CHANGES MADE."**

If for any reason an insufficient fee has been paid, the Assistant Commissioner is hereby authorized to charge the insufficiency to Deposit Account No. 05-0150.

If the Examiner has any questions or needs any additional information, the Examiner is invited to telephone the


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undersigned attorney at (650) 856-6500.

Respectfully submitted,
Alejandro M. Grignetti

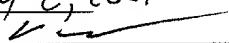
Dated: May 2, 2001

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Attachments:

CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231, on
Date: May 2, 2001
By: 

Arnold M. de Guzman

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the specification:

Paragraph beginning at line 18 of page 1 is being amended as follows:

Current devices for reading digital content include WebPAD style devices, electronic books, set top boxes, WEB enabled cell phones, Personal Digital Assistants (PDAs) ~~(PDA's)~~, palmtops, and laptop and desktop PC (Personal Computing) devices. WebPAD style devices are typically tethered to a base station via radio frequency (RF), have limited or no data storage capability (usually less than approximately 64 Megabytes (MB)), use proprietary operating systems (e.g., QNX, VxWorks, WinCE), and have limited battery life (typically less than approximately 3 hours). Additionally, WebPAD style devices are not 100% Internet compliant, since these devices typically offer no support for the following: (1) Macromedia ShockWave or Flash, (2) Multi-media support (QuickTime, .AVI, Real Audio/Video, and the like), and (3) JAVA, JavaScript, and Virtual Reality Modeling Language (VRML) and other "Plug-ins". As known to those skilled in the art, a plug-in is a helper application used by browsers to facilitate the viewing of certain file types, or content. WebPAD style devices also have limited

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or no viewers for .pdf, .doc, .xls, .ppt, type files, and the like.

Paragraph beginning at line 7, page 3 is being amended as follows:

Palmtop devices are generally not X86 processor based (the Intel 80x86 range, or compatibles from, e.g., Cyrix or Advanced Micro Devices), making them incompatible with existing plug-ins ~~plug-in's~~ for viewing Internet content. Furthermore, palmtop devices generally use the proprietary operating system, WinCE, which has poor World Wide Web (WEB) browser support. As known to those skilled in the art, a browser is an application program that provides a method to look at and interact with information contained on the WEB. The WEB Web browser is typically a client program that uses Hypertext Transfer Protocol (HTTP) that enables the browser user to make requests to WEB servers connected to the Internet. Two conventional WEB browsers that are widely used today are the Netscape Navigator and the Microsoft Internet Explorer.

Paragraph beginning at line 13 of page 10 is being amended as follows:

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As an example, the screen 115 comprises a liquid crystal display (LCD) panel 115a (Figure 4) with a screen size of approximately 10.4 inches and a screen resolution of 1024 by 768. Other screen sizes and resolution values may also be used for the screen 115. The display technology may also vary for screen 115. For example, thin film transistor (TFT) LCDs (i.e., active matrix displays) or super twisted nematic (STN, or passive matrix) displays may be used as the display technology for screen 115. Bi-stable LCD displays, such as electronic ink (Eink), which have less power requirements, may also be used for the display technology for screen 115, as could Organic Light Emitting Diodes ~~(OLED's~~ (OLEDs), or Light Emitting Polymers (LEPs) ~~LEP's~~ ~~Light-Emitting Polymers~~).

Paragraph beginning at line 1 of page 11 is being amended as follows:

In one embodiment, the screen 115 includes a four or five wire resistive touchscreen 115b (Figure 4). A power button 125 is used for turning the peripheral browser device 100 on or off. A multifunction joystick 135 is used for accessing a menu which allows access to all functionalities in the peripheral browser device 100, as well as permitting the user to perform scrolling functions (scrolling up, down,

left, and right functions) on screen 115. The joystick 135 can be in any suitable compact configuration that permits ease of use for the user. A stylus 126 permits fine touch access to screen contents too small for finger selection. A DC ~~input~~ input jack 127 provides connection to a DC power source (not shown) for recharging a battery in the browser device 100 and permits transmission of power into the browser device 100 when battery power is low. The device 100 also includes a cover 128 to protect the LCD panel/touch screen during storage, and also has a switch (cover sensor 129) to turn the browser device 100 off when the cover 128 is closed (i.e., when the cover 128 is inserted into the cover latch). Other features that may be included in the browser device 100 includes, for example, a speaker 121, microphone 122, stylus storage area 123, and/or earphone jack 124.

Paragraph beginning at line 18 of page 26 is being amended as follows:

Inevitably, however, the auto download utility will download content that was not required, or it will not download critical content, since it is impossible for a remote program to understand the content. This is due to the fact that a simple depth variable is insufficient to

understand the format of every article written. For example, some publishers may wish to get as much advertising into an article as possible, so a 10 page article may be divided into 20 linked pages, each with a different add advertisement. Other publishers, if they are subscription rather than advertising based, may place the article on a single long web page, to facilitate reading. A simple program cannot take the two scenarios into account; therefore the concept of content bundles is introduced. Content bundles are to the web, what books, newspapers and magazines are to paper: groups of like content bound together in one package. Content bundles are groups of self-referencing web pages that are put together by the publisher of that content, and then compressed for ease of delivery. The content bundles solve the problem of incomplete or extra content created by the automatic download utility 137. The content bundle represents a complete image of a magazine, or newspaper of even a web-based catalog (or any web based content), all wrapped up neatly into an easy to deliver bundle. Content bundles can also be downloaded by the automatic download utility 137; they simply do not require any depth control (a content bundle is one link deep).

Paragraph beginning at line 9 of page 31 is being amended as follows:

In one embodiment, the precious attribute is utilized in conjunction with the automatic disk reuse program 141. This is simply a garbage collection type disk cache cleanup that uses a Least Recently Used (LRU) algorithm to determine when blocks of non-volatile storage 120 are to be deleted for use by new content. The LRU scheme works in conjunction with the content pointer database 140 to identify content that is "stale", or has not been accessed in a user determined amount of time, and that does not have a precious attribute. Content that is, for example, more than one month old (this time period is user selectable for each content type), may be selected for automatic deletion. This will make room for the storage of newer content. Contents are deleted from the ~~Content~~ content pointer database start point, and down the link tree from there. The link traversal during deletion is facilitated by the link tree created during the initial content write to non-volatile storage. The link tree allows the cleanup utility (LRU) to simply delete a series of files that are known to be part of a particular initial start point, or content type. This reduces or eliminates the possibility of Dead Links left in non-volatile storage. Dead links are pages of WEB content

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that have no method of being accessed by either a WEB page link, or a content pointer database link. The LRU scheme is made easier with Content Bundles, in that large areas of storage are freed with a single file deletion. Each content type can have different default staleness times, so, for example, a newspaper entry may be stale after three or four days, while a magazine may not become stale for four months. These staleness attributes are also stored in the content pointer database, and are user changeable.

In the claims:

Claims 16 to 64 are being added as indicated below.

16. (New) An apparatus for browsing through digital content obtained from a data communications network, the device comprising:

a storage device capable to store digital content previously obtained from a data communication network;

a browser engine capable to access digital content stored in the storage device;

a processor capable to execute the browser engine to permit access of the digital content stored in the storage device.

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17. (New) The apparatus of claim 16 wherein the apparatus is capable to be communicatively coupled to a docking device.

18. (New) The apparatus of claim 16 wherein the digital content stored in the storage device was previously downloaded from the data communications network.

19. (New) The apparatus of claim 18 wherein the data communications network is the Internet.

20. (New) The apparatus of claim 16, further comprising: a helper engine executable by the processor and capable to permit display of at least one type of digital content.

21. (New) The apparatus of claim 16, further comprising: a plug-in application capable to function from within the browser engine and capable to permit display of at least one type of digital content.

22. (New) The apparatus of claim 16, wherein the apparatus is capable to be communicatively coupled to a host processing device and wherein the host processing device is capable to select digital content viewed in the host processing device for download to the apparatus.

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23. (New) The apparatus of claim 16, wherein the apparatus is capable to be communicatively coupled to the host processing device and wherein the host processing device is capable to perform a first function while the apparatus is capable to perform a second function.

24. (New) The apparatus of claim 16, wherein the apparatus is capable to schedule download of digital content from the data communications network.

25. (New) The apparatus of claim 16 further comprising:
a content pointer database including entries for each type of digital content stored in the storage device.

26. (New) The apparatus of claim 16 wherein the digital content includes at least one group of similar content that are grouped in at least one content bundle.

27. (New) The apparatus of claim 16 wherein the digital content obtained from the data communications network is stored in the storage device by caching of the digital content.

28. (New) The apparatus of claim 16, further comprising:
a least recently used engine executable by the
processor and capable to automatically delete a selection of
digital content in the storage device.

29. (New) The apparatus of claim 16, further comprising:
a picture viewer engine executable by the processor and
capable to process picture data stored in the storage device.

30. (New) A method of browsing through digital content
obtained from a data communications network, the method
comprising:
storing digital content previously obtained from a data
communication network; and
accessing digital content stored in the storage device.

31. (New) The method of claim 30, further comprising:
prior to storing the digital content, downloading the
digital content from the data communications network.

32. (New) The method of claim 30 wherein the data
communications network is the Internet.

33. (New) The method of claim 31 wherein the downloading the digital content comprises:

using a host processing device to download the digital content from the data communications network.

34. (New) The method of claim 31 wherein the downloading the digital content comprises:

selecting digital content viewed in a host processing device for download.

35. (New) The method of claim 30, further comprising:

viewing the digital content in a first device and performing another function in a host processing device communicatively coupled to the first device.

36. (New) The method of claim 31 wherein the downloading the digital content comprises:

download of digital content from the data communications network at a preset schedule.

37. (New) The method of claim 30 further comprising:

creating a content pointer database including entries for each type of stored digital content.

38. (New) The method of claim 30 wherein the storing the digital content further comprises:

grouping at least one group of similar content in the digital content in at least one content bundle.

39. (New) The method of claim 30 the storing the digital content further comprises:

storing the digital content by caching of the digital content in a storage device.

40. (New) The method of claim 30, further comprising:

automatically deleting a selection of the stored digital content.

41. (New) The method of claim 30, further comprising:

processing picture data in the stored digital content.

42. (New) An article of manufacture, comprising:

a machine-readable medium having stored thereon instructions to:

store digital content previously obtained from a data communication network; and
access digital content stored in the storage device.

43. (New) An apparatus for browsing through digital content obtained from a data communications network, the apparatus comprising:

means for storing digital content previously obtained from a data communication network; and
communicatively coupled to the storing means, means for accessing digital content stored in the storage device.

44. (New) A method of browsing through digital content obtained from a data communications network, the method comprising:

storing digital content previously obtained from a data communication network, the digital content being copied to a storage area for caching; and
accessing digital content stored in the storage device.

45. (New) An article of manufacture, comprising:

a machine-readable medium having stored thereon instructions to:

store digital content previously obtained from a data communication network, the digital content being copied to a storage area for caching; and
access digital content stored in the storage device.

46. (New) An apparatus for browsing through digital content obtained from a data communications network, the apparatus comprising:

means for storing digital content previously obtained from a data communication network, the digital content being copied to a storage area for caching; and

communicatively coupled to the storing means, means for accessing digital content stored in the storage device.

47. (New) A method of permitting the display of picture content, the method comprising:

receiving a request to display picture content that is stored in a storage device;

passing the request to a server;

reading, by the server, the request and determining, by the server, the types of data files stored in the storage device;

informing, by the server, that the request will be handled by a helper engine; and

displaying, by the helper engine, the picture content in response to the request.

48. (New) An article of manufacture, comprising:

a machine-readable medium having stored thereon
instructions to:
receive a request to display picture content that is
stored in a storage device;
pass the request to a server;
read, by the server, the request and determine, by the
server, the types of data files stored in the storage device;
inform, by the server, that the request will be handled
by a helper engine; and
display, by the helper engine, the picture content in
response to the request.

49. (New) An apparatus of permitting the display of
picture content, the apparatus comprising:

means for receiving a request to display picture
content that is stored in a storage device;
communicatively coupled to the receiving means, means
for passing the request to a server;
communicatively coupled to the passing means, means for
reading the request and for determining the types of data
files stored in the storage device;
communicatively coupled to the reading means, means for
informing that the request will be handled by a helper
engine; and

communicatively coupled to the informing means, means
for displaying the picture content in response to the
request.

50. (New) An article of manufacture, comprising:

a machine-readable medium having stored thereon
instructions to:

receive digital content from a data communication
network and store the digital content in a non-volatile
storage medium;

execute a content browsing engine to select digital
content stored in the non-volatile storage medium; and
display an image of the digital content in a display.

51. (New) An apparatus for viewing digital content
received from a data communication network, the apparatus
comprising:

means for receiving digital content from a data
communication network and for storing the digital content in
a non-volatile storage medium;

communicatively coupled to the receiving means, means
for executing a content browsing engine to select digital
content stored in the non-volatile storage medium; and

communicatively coupled to the executing means, means
for displaying an image of the digital content in a display.

52. (New) An article of manufacture, comprising:

a machine-readable medium having stored thereon
instructions to:

receive a data cast transmission including content
bundles;

filter the received content bundles so that selected
content bundles are stored in a portable non-volatile
storage; and

view at least some of the stored content bundles in a
display.

53. (New) An apparatus for receiving data cast
transmission, the apparatus comprising:

means for receiving a data cast transmission including
content bundles;

communicatively coupled to the receiving means, means
for filtering the received content bundles so that selected
content bundles are stored in a portable non-volatile
storage; and

communicatively coupled to the filtering means, means
for viewing at least some of the stored content bundles in a
display.

54. (New) The apparatus of claim 53, further comprising:
communicatively coupled to the viewing means, means for
transmitting a feedback information to a broadcaster of the
content bundles in response to receiving the selected
content bundles.

55. (New) A method of processing digital content,
comprising:
receiving digital content in a high-definition
television signal;
filtering the digital content; and
storing the filtered digital content.

56. (New) The method of claim 55 wherein the digital
content is grouped in at least one content bundle.

57. (New) The method of claim 55 wherein the filtering is
based on at least one selected parameter.

58. (New) The method of claim 55, further comprising:

61. (New) An apparatus for processing digital content,
comprising:
means for receiving digital content in a high-
definition television signal;
communicatively coupled to the receiving means, means
for filtering the digital content; and
communicatively coupled to the filtering means, means
for storing the filtered digital content.

62. (New) The apparatus of claim 61, further comprising:
communicatively coupled to the storing means, means for
sending feedback information to a broadcaster of the high-
definition television signal.

63. (New) A method of advertising, comprising:
sending digital content in a high-definition television
signal;
receiving feedback information in response to selection
of the digital content; and
based on the feedback information, setting an
advertisement content that is included in a broadcast of the
high-definition television signal.

64. (New) An apparatus for advertising, comprising:
means for sending digital content in a high-definition
television signal;
communicatively coupled to the sending means, means for
receiving feedback information in response to selection of
the digital content; and
communicatively coupled to the receiving means, means
for setting an advertisement content that is included in a
broadcast of the high-definition television signal based on
the feedback information.